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# ASTRA Whitepaper

# ASTRA

# What is ASTRA?

ASTRA is not a concept referring to simple digital assets or specific technologies.

ASTRA is a "program that connects rewards and payments into a single flow," and it is an economic protocol designed to create a cyclical structure where all transactions and activities occurring in the real economy naturally convert into assets and lead back to consumption. In existing economic systems, rewards were merely supplementary elements, and payments were simply a means of concluding transactions. However, ASTRA redefines these two functions not as separate concepts, but as a single integrated system.

consumption and activities lead back to payment and consumption, and as this process repeats, a continuous cycle of value is achieved.

## INTRODUCTION

# The relationship between ASTRA and 4988.io

The structure of ASTRA does not exist independently. ASTRA must be connected to the real economy, and at its center lies 4988.io. As a commerce platform where product sales and distribution actually take place, 4988.io serves as the practical foundation upon which ASTRA operates.

### ASTRA

A system responsible for the creation and flow of value

### 4988.io

The starting point where that value actually arises

These two are inseparable and form a single economic system, but they are separate legal entities, and CC&P acts as an agent.

# Limitations of Existing Web3 and ASTRA's Solution

The biggest reason why existing Web3 projects failed or revealed their limitations was the lack of connection to the real economy. Many projects focused on the issuance and distribution of tokens, but failed to provide clear evidence of where those tokens actually derive their value. As a result, the value of the tokens came to depend on market expectations or liquidity, which ultimately led to an unsustainable structure.

## Problems with existing Web3

The token exists first, the basis of its value is unclear, and it relies on market expectations and liquidity.

## ASTRA's Solution

A physical transaction occurs first, and a reward is generated as a result. The starting point of value is always the "sale," which is implemented through 4988.io.



## INTRODUCTION

# 4988.io Living Economy Community

4988.io is not a simple shopping platform, but a lifestyle economy community network where consumption, connection, and rewards operate simultaneously. On this platform, the moment a product is sold, not only is simple revenue generated, but a new value in the form of rewards is also created. These rewards are calculated by the ASTRA program, automatically distributed to participants, and can be used again as a payment method.

- 📄 This structure transforms consumption from a mere expense into a starting point for assets, playing a role in expanding individual economic activity.

# Separation structure of reward and distribution

One of the most important features of ASTRA is that it clearly distinguishes between rewards and distribution. In existing systems, the process of generating rewards and distributing them is bundled into a single flow, resulting in an opaque structure and limited scalability. However, in ASTRA, when a transaction occurs, the reward is calculated first, followed by distribution according to predefined rules. This structure enhances system transparency and allows for the flexible application of various policies and conditions.

Invitation-based network

Revenue-based compensation

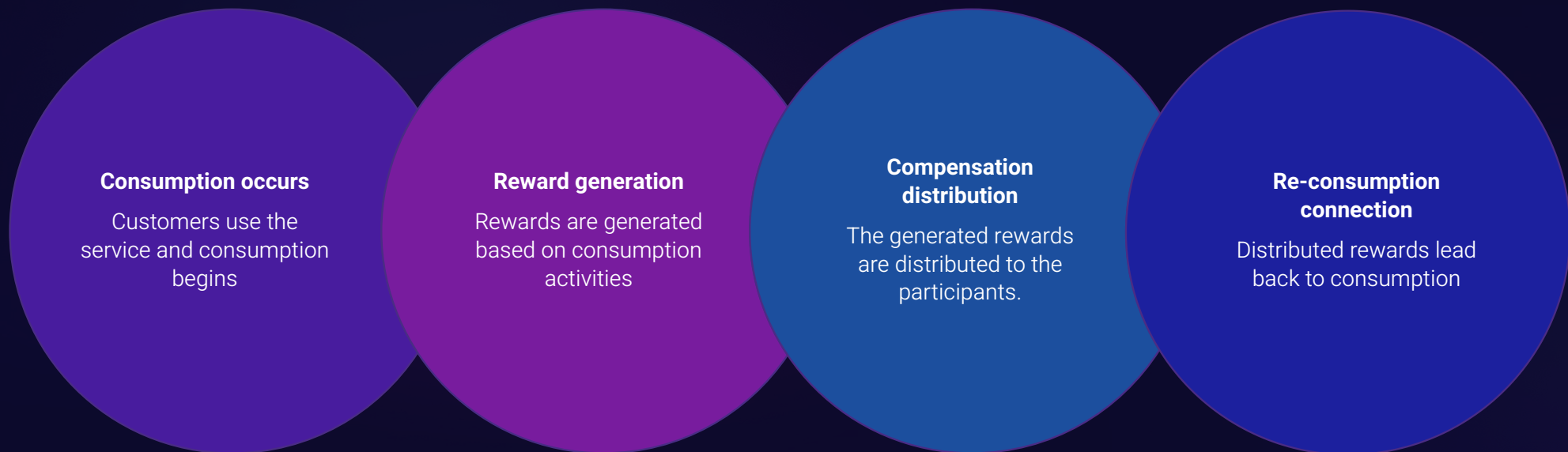
Distribution by organizational unit

Designated compensation

In particular, the reason why various methods such as invitation-based networks, revenue-based compensation, organizational unit distribution, and designated compensation can operate simultaneously lies precisely in this separation structure.

# ASTRA's Circular Economy Structure

Furthermore, ASTRA functions as a payment system beyond a simple reward system. The ASTRA generated as rewards can be used to purchase goods within 4988.io, thereby ensuring a continuous circulation of the economy. In other words, ASTRA creates a structure where rewards lead back to consumption, rather than a structure that ends with rewards.



This cycle provides individuals with the motivation for continuous economic participation and generates stable revenue and growth for the platform. Ultimately, ASTRA and 4988.io are not independent systems, but rather two axes forming a single integrated economic structure. 4988.io generates the flow of the real economy, while ASTRA capitalizes on that flow and connects it back to consumption.

ASTRA is not technology but structure, not token but flow. And that flow is completed through 4988.io.

## 1. EXECUTIVE SUMMARY

# Executive Summary

## Definition of ASTRA

It is a Web3 economic protocol that operates based on real-world sales, not just simple digital assets.

## Key Definition

When sold, a reward is generated, and the generated reward is automatically distributed.

## Existing Web3

- Liquidity-centered
- Speculation-centered

## ASTRA

- consumption base
- Revenue-based
- Automatic distribution-based

# Market Problem

1

## 2.1 Disruption of consumption

Modern consumption begins and ends with expenditure. Value vanishes the moment of purchase, and rewards and benefits are generally one-time occurrences. Ultimately, consumption remains a disconnected activity that fails to accumulate as an asset.

2

## 2.2 Platform exclusivity

E-commerce has been reorganized around large platforms, and sellers are subject to fees and policies. As platforms control traffic, payments, and exposure, it has become an environment where it is difficult for individuals to design revenue structures.

3

## 2.3 Limitations of Web3

Web3 presented potential but had a weak connection to the real economy. Many projects relied on liquidity and expected value, and low usability prevented it from leading to widespread adoption.

## ASTRA Solution Structure — Circular Economy Design

To resolve the fragmentation of the existing economic structure, ASTRA designs a cyclical structure that begins with consumption, leads to rewards and assets, and then returns to consumption. This structure goes beyond simple accumulation or reward systems, aiming to connect all transactions occurring in the real economy into a stream of value.

Traditionally, consumption was an act that ended the moment a product was purchased. Consumers pay a cost and receive goods or services in return, but no additional value is generated thereafter. ASTRA fundamentally reconstructs this fragmented structure. When consumption occurs, rewards are generated immediately, automatically distributed, and the distributed assets are designed to be used for consumption again. As a result, consumption is no longer an ending act, but becomes the starting point of new economic activity.



# 5 stages of the ASTRA structure

1

In the consumption generation stage, when a product is sold on a physical-based platform like 4988.io, it is not merely a sales record, but an economic event is generated, and this event serves as the basis for subsequent rewards and distribution.

2

In the reward generation phase, when consumption occurs, the ASTRA program calculates the reward value by reflecting the transaction amount, participation structure, and contribution; at this stage, it is not yet distributed to anyone.

3

In the automatic distribution phase, calculated rewards are automatically distributed via smart contracts according to pre-defined rules, and allocated to the invitation community, revenue contributors, organizational units, operating entities, etc., according to their roles.

4

In the assetization phase, distributed rewards are converted from simple points into storable and usable digital assets, which users can store, exchange, or use as a payment method.

5

In the re-consumption stage, the capitalized ASTRA is used again to purchase products on 4988.io, creating new consumption, and this flow repeats, forming a circular structure in the system.

Consequently, ASTRA integrates the real economy and digital assets into a single flow through a cyclical structure of "consumption → reward → distribution → assets → re-consumption."

# Key Concepts

## Reward

Compensation is the value newly generated by the system when a transaction or activity occurs. It is calculated based on criteria such as product sales, network expansion, and contribution, and is the stage that defines "how much value has been created." This process focuses purely on the calculation function and is not yet attributed to a specific participant.

## Distribution

Distribution is the process of dividing the value generated during the compensation phase among multiple participants according to predefined rules. Each participant's share is determined based on criteria such as the invitation structure, revenue contribution, and organizational unit, and this is the stage where it is attributed as actual assets.

ASTRA does not process compensation and distribution as a single flow; instead, it operates by separating creation and distribution. This ensures both transparency in compensation calculation and flexibility in the distribution structure, while enabling the stable application of various economic structures.

## 5. SYSTEM STRUCTURE

# System structure

ASTRA's system consists of four layers, each performing an independent role to complete the overall economic flow.

Layer	Role
4988.io	Product sales (real economy)
ASTRA Token	Value storage and distribution
Life Manager	Network expansion
ASTRA Bank	Settlement and storage

## 6. CORE TECHNOLOGY STRUCTURE

ASTRA's core technology lies in a structure that separates rewards and distribution into independent smart contracts, rather than treating them as a single process. First, the reward phase is the calculation stage for the total value generated when a transaction or activity occurs, performing only the role of calculating "how much was created." Subsequently, distribution operates as the execution phase that divides the already calculated rewards among participants according to established criteria.

### **Separation of Creation and Distribution**

Simultaneously ensuring system transparency and scalability

### **Flexible Policy Changes**

Flexible application of various policy changes or compensation structures possible

### **High Stability**

Provides high stability and operational efficiency compared to existing single structures



## 7. SMART CONTRACT ARCHITECTURE

ASTRA designs the entire process, from transaction initiation to asset attribution, as a step-by-step smart contract structure. Each step operates independently, and the overall flow is composed as follows.

01

### Sales Event

Product sale occurs on 4988.io → Transaction confirmation data is generated. Included information: Transaction amount, seller information, buyer information, invitation relationship, transaction status (confirmed/canceled). The starting point for all rewards is the "actual sale".

02

### Reward Contract

Calculate total reward amount based on transaction data. Applicable factors: Product price, reward rate, policy settings. This step determines only "how much ASTRA is generated." It has not been paid to anyone yet.

03

### Zone Split Logic

Divide the calculated total rewards into 4 tiers. Tier 1 (Invitation): 40% / Tier 2 (Revenue): 40% / Tier 3 (Center): 10% / Tier 4 (Reserve): 10%. "The step of breaking down rewards by nature"

04

### Distribution Contracts

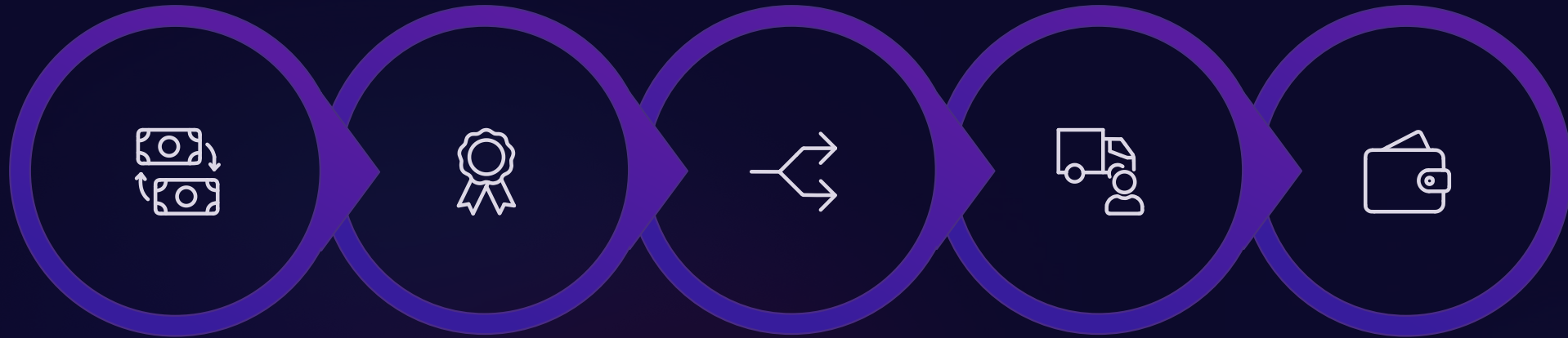
Each tier is distributed in a different way. ① Invitation distribution (20 tiers, 2% each) ② Revenue-based distribution (Grades A1–A10) ③ Center distribution (10% of the total distributed equally) ④ Designated distribution (automatic transfer to specific wallets). Determines "who receives how much".

05

### Wallet / Vault

Store distributed ASTRA in each wallet. Features: Instant payment, lockup, reserve storage, and assignment to the operations wallet. Ultimately confirmed as user assets.

## Summary of Overall Structure and Key Meaning



Transaction  
occurs

Reward  
generation

Section  
separation

Execute  
distribution

Asset  
attribution

The reward is  
"generation"

Distribution is "execution"

The wallet is "belonging"

And because these three are separated, policy changes are free, the structure can be expanded, and the system remains transparent.

# Reward Contract

ASTRA's Reward Contract is a core module that generates rewards and calculates the total reward amount when a transaction occurs. This contract operates based on actual transaction data from 4988.io and calculates the total reward value generated from the transaction by reflecting product prices, reward rates, policy conditions, etc.

- ❏ The important point is that the Reward Contract does not perform a distribution function. In other words, at this stage, it does not determine which participant receives how much, but only defines "how much ASTRA is newly generated through this transaction."

This separates the reward generation process into a pure computational domain, clearly distinguishing it from the subsequent distribution phase. This structure enhances system transparency and provides the flexibility to avoid affecting the distribution structure even when the reward policy is changed.

# Distribution Contract

The Distribution Contract is the core module of the execution phase that distributes the rewards calculated by the Reward Contract to the actual participants. This contract does not participate in the reward generation process; it performs only the role of distributing the rewards to each participant according to a predefined policy based on a fixed total amount.

Distribution is carried out based on various criteria such as the invitation network, profit contribution, center organization, and designated wallet, and is automatically calculated and executed according to the logic of each sector. In particular, ASTRA's distribution contract does not include a reward calculation function, ensuring a clear structure and stable operation even in the event of policy changes.



## **Auto-run**

It runs automatically without human intervention and minimizes trust issues among participants.



## **Ensuring transparency**

Features that simultaneously ensure system transparency and efficiency

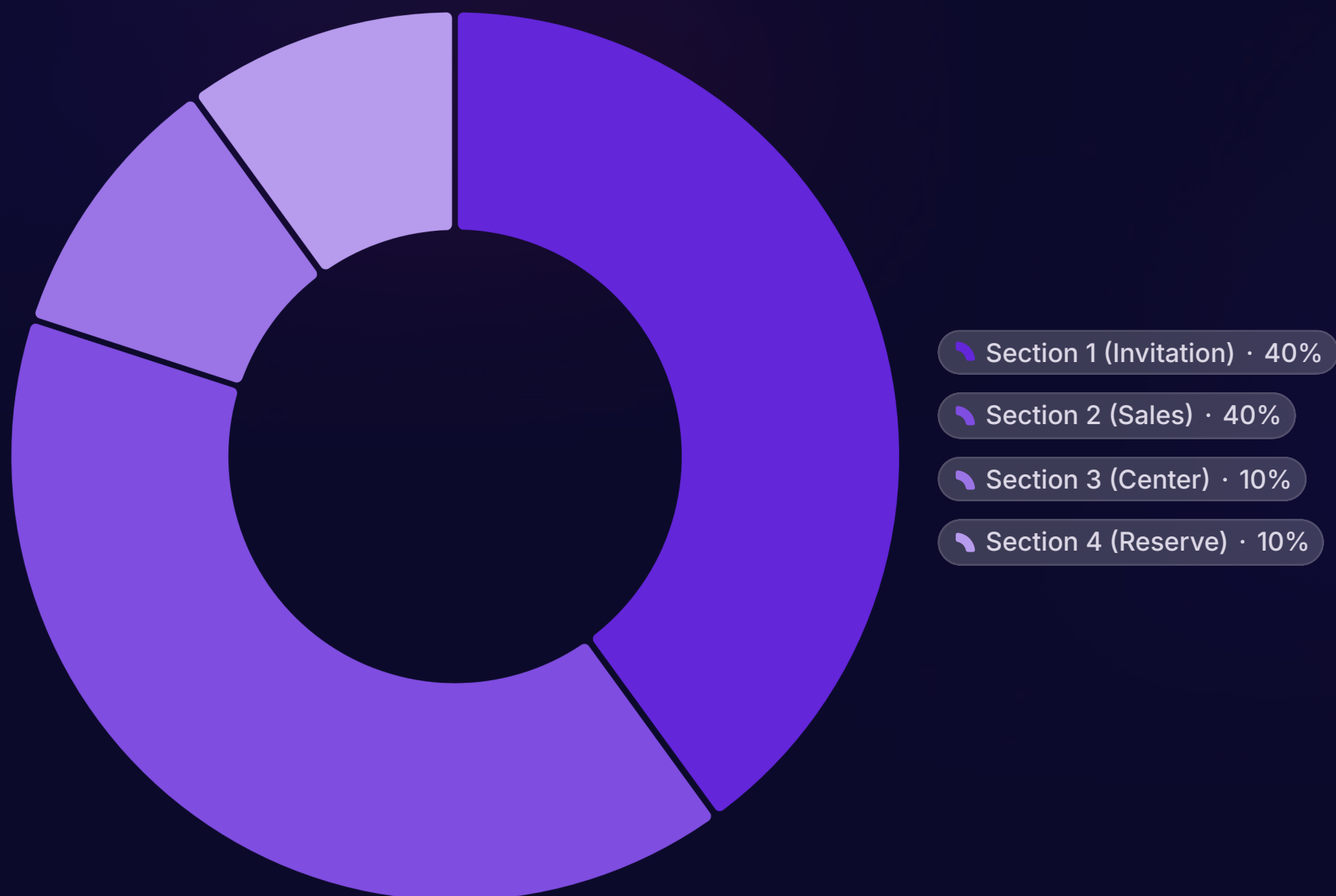


## **Policy-based operation**

It operates based on policies and is processed by smart contracts.

# Section 4 Reward System

Panel	Explanation	Ratio	Characteristic
Section 1	Invitation, 20-step equal distribution	40%	Community expansion structure
Section 2	Revenue-based conditional compensation	40%	Performance-based automatic rewards
Section 3	Center organizational distribution	10%	Participation of national attachés
Section 4	Designated reserve compensation	10%	Automatic payment to specific wallets



## 11. SECTION 1

### Structure

2% payout for up to 20 levels

Community expansion structure

### How It Works

Rewards are automatically distributed based on an invitation network, and the structure is designed so that more participants receive rewards as the network expands. Rewards are distributed equally at each level up to a maximum of 20 stages, ensuring that community growth directly leads to increased rewards.

# Section 2

Features: performance-based automatic rewards, no duplicate payments

Rank	Sales Condition	Reward	Notes
A1	500만원	5%	
A2	1,000만원	10%	
A3	3,000만원	15%	
A4	5,000만원	20%	
A5	1억원	25%	
A6	5억원	28%	
A7	10억원	31%	
A8	50억원	34%	
A9	100억원	37%	
A10	200억원	40%	Highest Grade

# 3rd Section & 4th Section — Center Distribution and Designated Rewards

## 13. 3rd Section: Center-Based Distribution

- Participate when a center is created, regardless of country
- Share a total of **10%**
- Scale based on community organization

## 14. 4th Section: Designated Rewards

- Automatically paid to a specific wallet
- Operating / partner / strategic funds
- Automatically transferred to pre-designated wallets

# Full Execution Flow



Full execution flow is a sequential processing structure that composes the core operating principle of the ASTRA protocol, fully automating the process from reward generation to asset attribution based on real-world transaction data. This structure is characterized by achieving high transparency and scalability through the linkage of smart contracts separated by function.

"Transaction → reward generation → structural decomposition → condition-based distribution → asset attribution" is a clear sequence of stages, and because each stage is designed independently, system stability, policy flexibility, and scalability are secured at the same time.

# Token Economy — Sales Mining

**Issuance method: Sales Mining (sales-based issuance) Feature: prevents over-issuance, linked to real-world sales**

Sales Mining is a core concept that explains ASTRA's issuance structure, designed so that tokens are not simply mined or pre-issued in large quantities, but are generated **only when actual sales occur**. In other words, ASTRA does not issue tokens first and then circulate them; instead, when a product is sold on 4988.io and the transaction is confirmed, a certain reward amount is calculated based on that transaction, and only the amount needed at that time is issued. In this structure, mining does not refer to traditional computational mining, but to **sales-linked mining, where revenue itself becomes the condition for mining**.

- The biggest advantage of this approach is that it prevents over-issuance. If there are no sales, there is no issuance; if the transaction volume is small, the issuance amount is also small. Ultimately, Sales Mining is a structure in which "value is created when a product is sold, and that value is converted into rewards," making ASTRA a token based on the real economy.

# Value Appreciation Structure

ASTRA's value appreciation structure is designed as a circular system naturally formed by real sales and usage flows. Issuance based on Sales Mining, expansion of actual use cases, and supply control mechanisms are organically connected.

## Growing demand as sales increase

As sales on 4988.io increase, the number of participants and transaction frequency also rise. As a result, demand to acquire and use ASTRA naturally expands.

## Circulation activation through increased usage

ASTRA is designed so that, after being distributed as rewards, it can be used again for payments. As usage increases, additional transactions occur and the cycle repeats.

## Supply control through a burn structure

A certain percentage can be designed to be burned during transactions or payments. Through this, circulation gradually decreases and supply is controlled.

Ultimately, ASTRA's value appreciation is created as three axes — "sales growth → increased usage → supply control" — operate simultaneously.

# DAO (Governance) Decentralized Decision-Making Structure

ASTRA's value appreciation structure expands into a complex system that combines NFT404-based product sales, the creator economy, and participant decision-making. The key is how the various decisions generated during the transaction process are handled and reflected.

## NFT404 — Revenue Distribution Tool

NFT404 includes not only simple ownership but also rights to revenue distribution from sales and participation privileges. Rewards generated from product sales are converted into ASTRA and automatically distributed to NFT holders.

## Integration with the Creator Economy

Creators sell products through video content, and that content becomes both a sales channel and a point of revenue generation. ASTRA processes these decisions based on participants rather than a central authority.

## NFT404 — Decision-Making Rights Token

NFT holders can participate in major policies such as product selection, reward rate adjustments, and changes to the distribution structure. This process is operated in the form of a DAO and automatically reflected by smart contracts.

Ultimately, the essence of ASTRA is not just a reward system, but a decentralized economic operating protocol that handles "sales and distribution, as well as countless decisions."

# Expansion Strategy — Self-Propagating Economic Structure

ASTRA's expansion strategy is designed as a structure that goes beyond simple online platform growth, combining **offline distribution, the creator economy, global live commerce, and an education-based expansion model**. At its center is the strategy of directly operating 100 supermarkets linked with 4988.io.



## 100 Directly Operated Supermarkets

Nationwide direct operation. Serves as a content production base and logistics foundation for delivery within 2 hours domestically and for global sales



## Creator Economy

Create video content based on Korean supermarket products. Real-time global sales through TikTok, YouTube, and live commerce channels



## AI-Based Expansion Education

An AI-powered education system for creators and sellers. Learn and execute product selection, video production, marketing, and sales strategy with AI



## Gimcheon Main Branch Hub

Operate creator parties and education programs more than 8 times per month. A growth platform that combines education, content creation, community, and business

ASTRA expands rapidly through a structure of "Supermarket (Products) → Creator (Content) → Live Commerce (Sales) → AI Education (Expansion) → Community (Sustainability)."

# Differentiation and Technical Effects

Unlike existing systems, ASTRA operates not as a simple reward distribution structure, but on the basis of a **four-layer structure combining invitations, sales, organization, and designation**. While conventional platforms remain limited to fixed reward mechanisms, ASTRA applies a conditional reward system that changes according to sales and contribution. In addition, it is operated not as a centrally controlled structure, but through automated execution via smart contracts, forming a real-asset-based economic structure connected to actual product sales rather than speculation.



## ① Reward/distribution separation → Increased transparency

The ability to clearly distinguish how rewards are generated and how they are distributed greatly improves the transparency of the system.



## ② Sales-based rewards → Sustainability

Rewards are designed to be generated only when actual product sales occur, enabling a sustainable economic model that does not rely on external markets or speculation.



## ③ Automated distribution → Operational efficiency

The automated distribution system through smart contracts ensures accurate and immediate rewards without human intervention, maximizing operational efficiency.



## ④ Scalability → Global applicability

Because the reward and distribution structure is modularized, it can be expanded across various commerce, creator, and global sales channels, laying the foundation for development into a universal economic protocol.

# Risk Response (Risk Management)

ASTRA is designed as a real-economy-based reward protocol to minimize the structural risks of existing digital asset systems. In particular, it is characterized by a structure that can preemptively control major risk factors such as excessive issuance, value instability, and policy rigidity.

1

## Excess Issuance Limitation Structure

ASTRA operates based on Sales Mining. Rewards are generated only when actual product sales occur, and are distributed through swaps according to transaction volume. This structurally blocks the risk of unlimited supply expansion.

2

## Revenue-Based Value Stabilization Structure

Because ASTRA operates around the sale of real products, the value of the token is connected not simply to market demand, but to actual transaction flows. This structure mitigates price volatility and reduces dependence on short-term market fluctuations.

3

## Policy-Adjustable Structure

Because ASTRA is based on a smart contract structure in which reward calculation and distribution execution are separated, it is possible to adjust specific policies independently. Reward rates, distribution ratios, burn ratios, and lock-up conditions can be changed as needed.

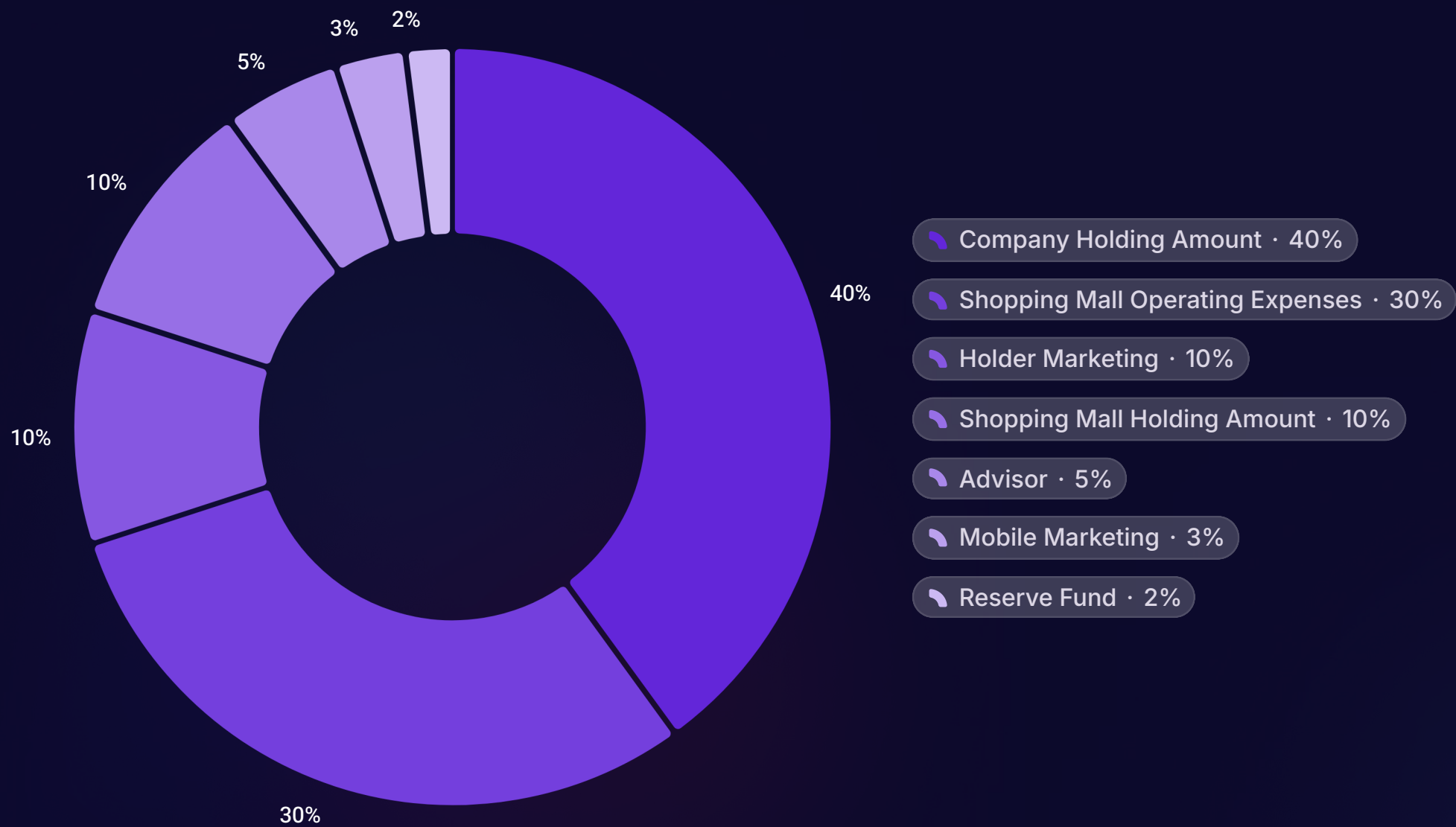
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## Risk Diversification through Multi-Layer Distribution Structure

ASTRA prevents rewards from concentrating on specific participants or structures through a four-section distribution structure composed of referrals, sales, center, and reserve funds. This reduces economic concentration, maintains balance among participants, and enhances system stability.

# ASTRA's distribution proceeds as follows.

ASTRA's distribution proceeds as follows.



Content	Quantity	Percentage
Company Holding Amount	2,000,000,000	40%
Shopping Mall Operating Expenses	1,500,000,000	30%
Holder Marketing	500,000,000	10%
Shopping Mall Holding Amount	500,000,000	10%
Advisor	250,000,000	5%
Mobile Marketing	150,000,000	3%
Reserve Fund	100,000,000	2%
Total	5,000,000,000	100%

The advisor's allocation cannot be moved for 3 years and may be changed according to the company's administrative operations.

# Key Message and Comprehensive Evaluation

ASTRA is not merely a digital asset or a reward system, but a **integrated economic protocol that operates based on the real economy**. Consumption, rewards, distribution, assets, and re-consumption are connected in one circular structure, creating a flow in which consumption becomes the starting point of rewards, and those rewards are again accumulated and reused as assets.

In addition, ASTRA secures transparency and scalability through a smart contract structure that separates rewards and distribution, and completes an executable economic ecosystem that combines Sales Mining-based conditional rewards, NFT404, creator video sales, global live commerce, 4988.io-linked supermarkets, AI education, and offline communities and education systems.

Consumption is not an expense, but an asset

Connection is not a relationship, but revenue

Sales are not revenue, but a reward system

These three principles explain the essence of the economy that ASTRA aims for, and present the key direction for shifting away from the existing centralized platform economy toward **a participant-centered decentralized real-economy model**.